

**METHODS AND APPARATUS FOR DETECTING AND QUANTIFYING
LYMPHOCYTES WITH OPTICAL BIODISCS**

ABSTRACT OF THE DISCLOSURE

A clinical diagnostic assay is performed on an optical bio disc and is read
5 with a disc drive. A method for determining the quantity of a specific type of
blood cell in a biological sample includes binding an antibody to a capture zone
on the disc, providing a sample to the capture zone, remove portions of the
sample that are not bound in the capture zone, and counting bound cells.

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